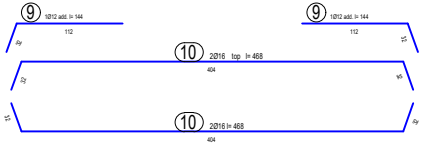
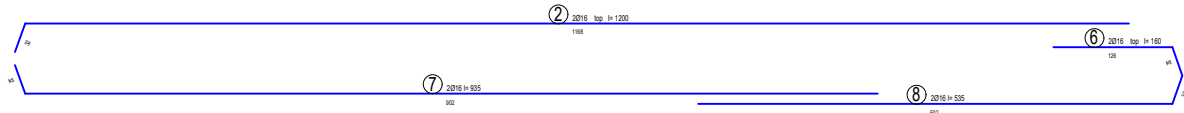
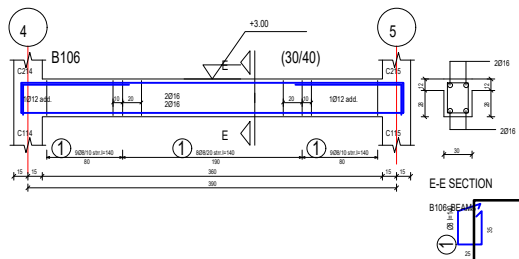
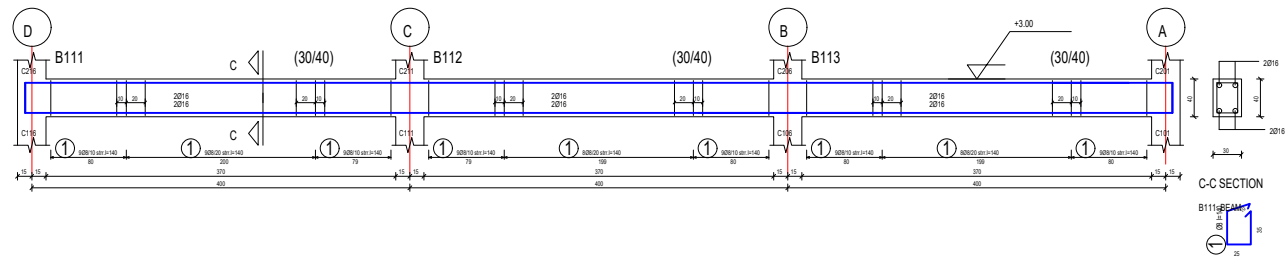
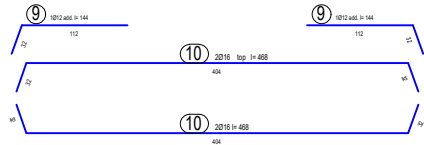
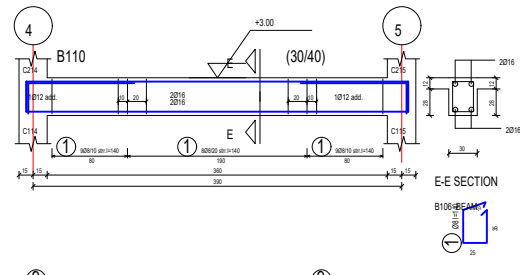
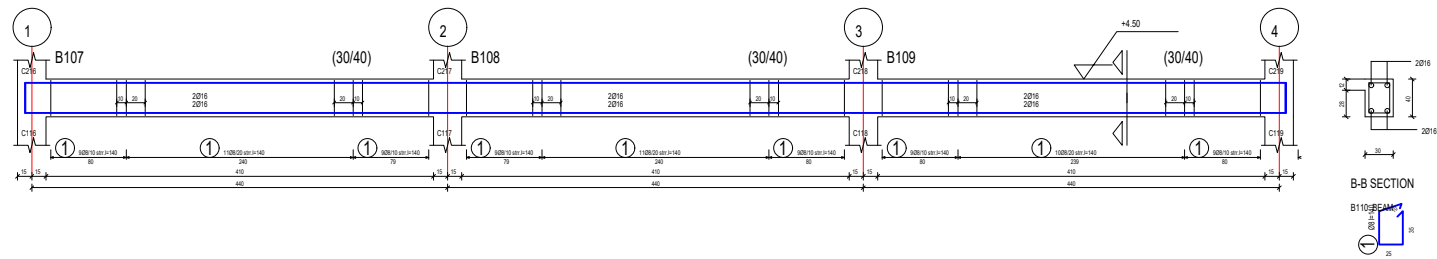
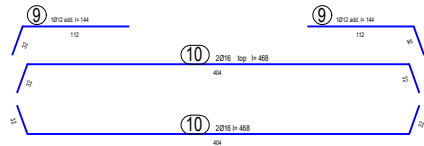
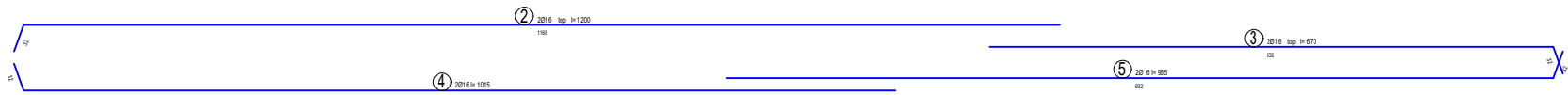
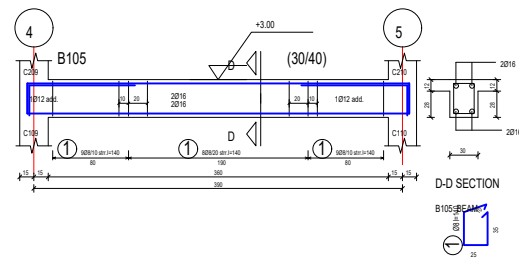
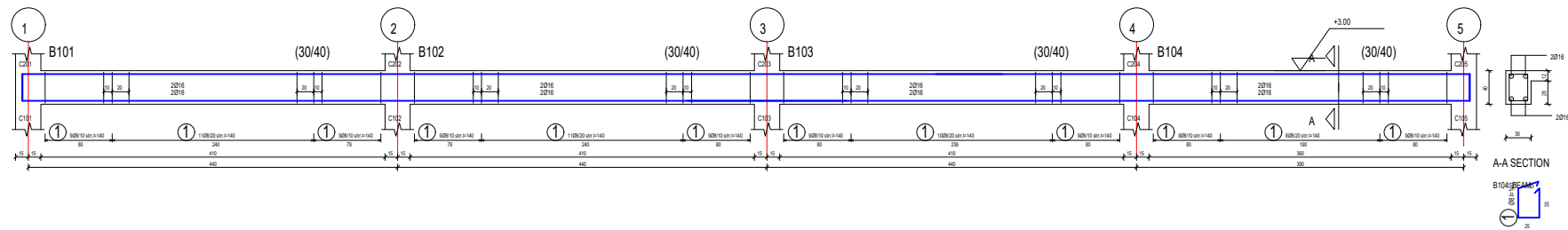


BEAM DETAILS



B.O.Q.

Ø 6-12 (kg) : 201
Ø 14-50 (kg) : 512.1

ITEM	MARK	DIA.	LENGTH	WEIGHT
8	P10	Ø16	468	59
2	P08	Ø16	535	16.8
2	P07	Ø16	935	29.4
2	P06	Ø16	160	5
6	P05	Ø16	965	91.3
6	P04	Ø16	1015	96
6	P03	Ø16	670	63.3
8	P02	Ø16	1200	151.3
				512.1
4	P09	Ø12	144	5.1
				5.1
355	P01	Ø8	140	195.9
				195.9

Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with plinths:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Walls & Columns: All walls & columns are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Beams: Beams for all storeys are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Slab: Slabs for all storeys are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$



Water Solutions Pvt Ltd
1st Floor,
Ma.Fas eri, Ameenee Magu,
Male' 20205,
Republic of Maldives
Tel: +960 334 1643 / +960 330 1643
Fax: +960 333 1643
Email: info@water-solutions.biz

KOCKS
ENGINEERS

Kocks Consult GmbH
Stegemannstr. 32 - 38
D-56068 Koblenz
Tel: +49 261 1302-0
Fax: +49 261 1302-400
Email: info@kocks-ing.de

	Name	
Designed	Qinami	April 2018
Drafted	Qinami	April 2018
Checked		April 2018
Project No.	213 - 68524	

Client	Ministry of Environment and Energy		
Project Title	Consultancy Services for Feasibility Study for an Integrated Solid Waste Management System for Zone III (including Greater Malé) and Preparation of Engineering Design of the Regional Waste Management Facility at Thilafushi		
Design phase	Detailed Design Harbour Rehabilitation		
Contents	Workshop Building - Beam Details		
Scale	1 : 50		
Drawing No.	4.2.7	Paper	A3

